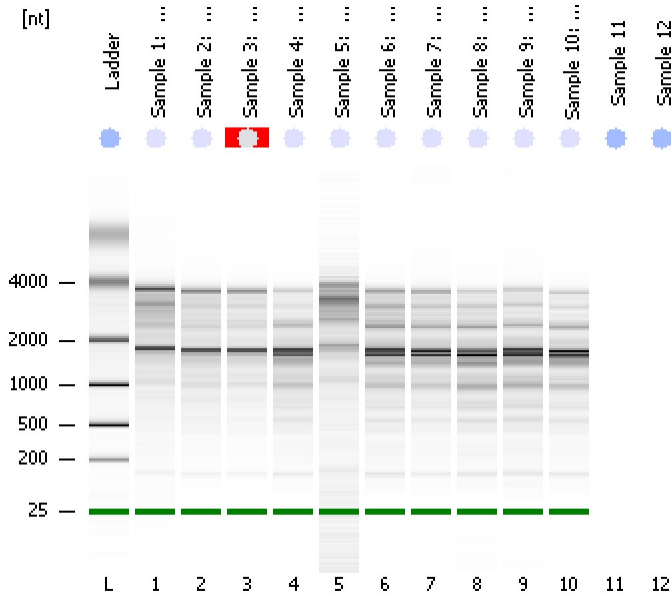


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

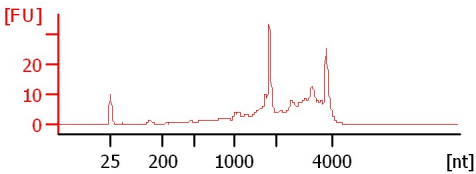
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

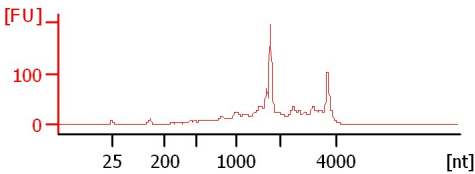
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

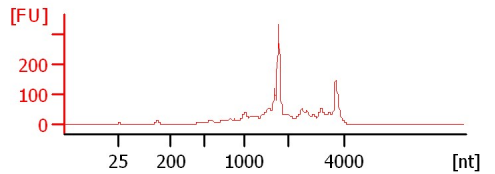
Sample 1: WT 1
RIN: 7.10



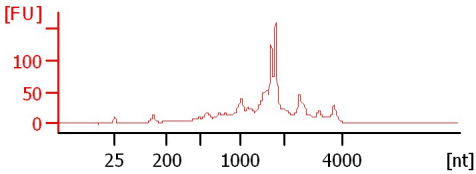
Sample 2: WT 2
RIN: 7



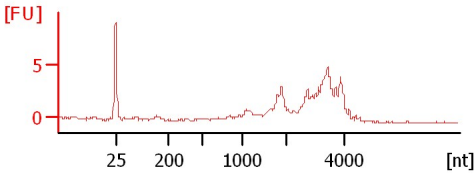
Sample 3: WT 3
RIN N/A



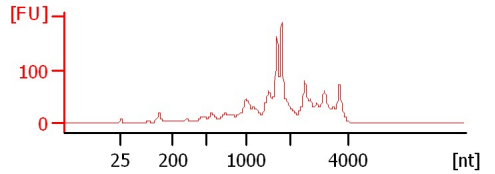
Sample 4: WT 4
RIN: 4.20



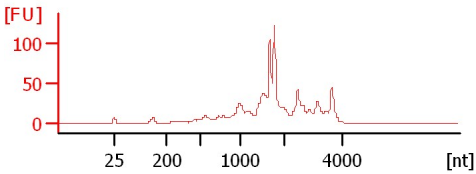
Sample 5: WT 5
RIN: 6.60



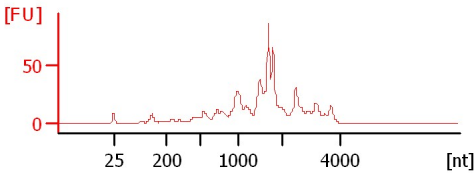
Sample 6: WT EPA 1
RIN: 4.10



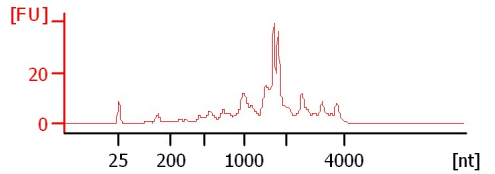
Sample 7: WT EPA 2
RIN: 4.60



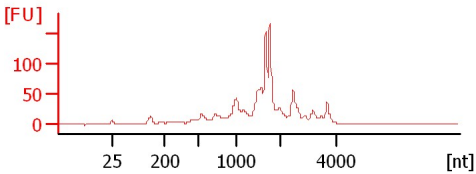
Sample 8: WT EPA 3
RIN: 3.80



Sample 9: WT EPA 4
RIN: 3.60



Sample 10: WT EPA 5
RIN: 3.90



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1: WT 1		✓	RIN: 7.10	
Sample 2: WT 2		✓	RIN:7	
Sample 3: WT 3		✓	RIN N/A	
Sample 4: WT 4		✓	RIN: 4.20	
Sample 5: WT 5		✓	RIN: 6.60	
Sample 6: WT EPA 1		✓	RIN: 4.10	
Sample 7: WT EPA 2		✓	RIN: 4.60	
Sample 8: WT EPA 3		✓	RIN: 3.80	
Sample 9: WT EPA 4		✓	RIN: 3.60	
Sample 10: WT EPA 5		✓	RIN: 3.90	
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

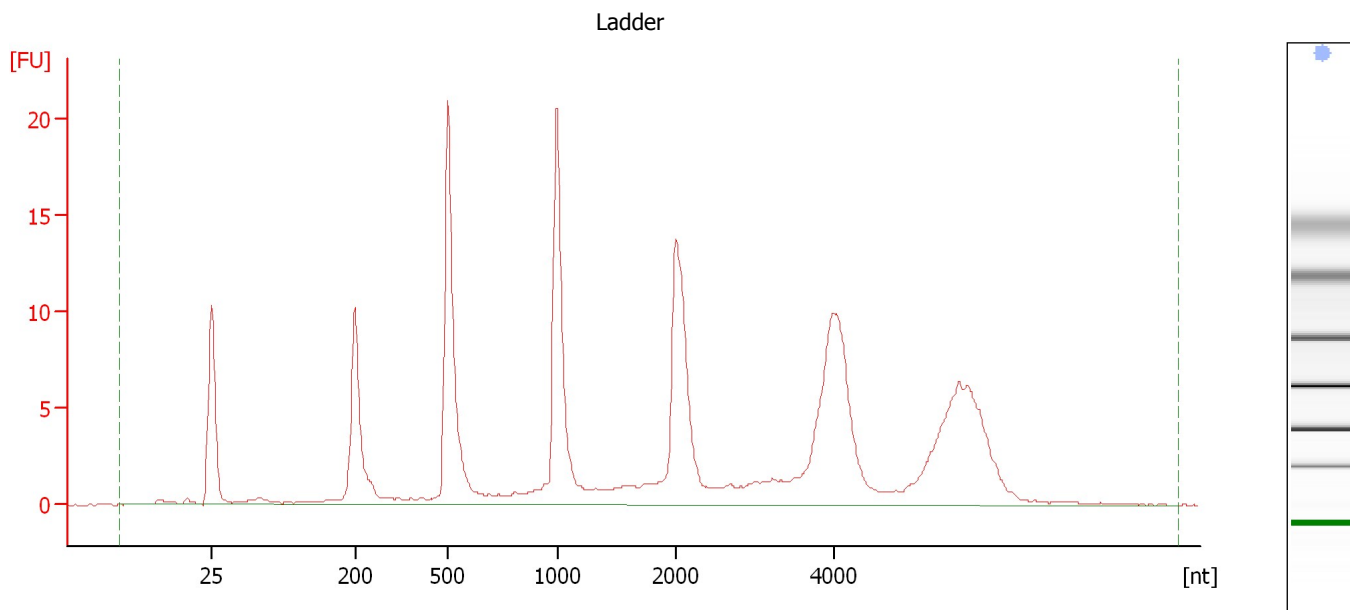
Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary



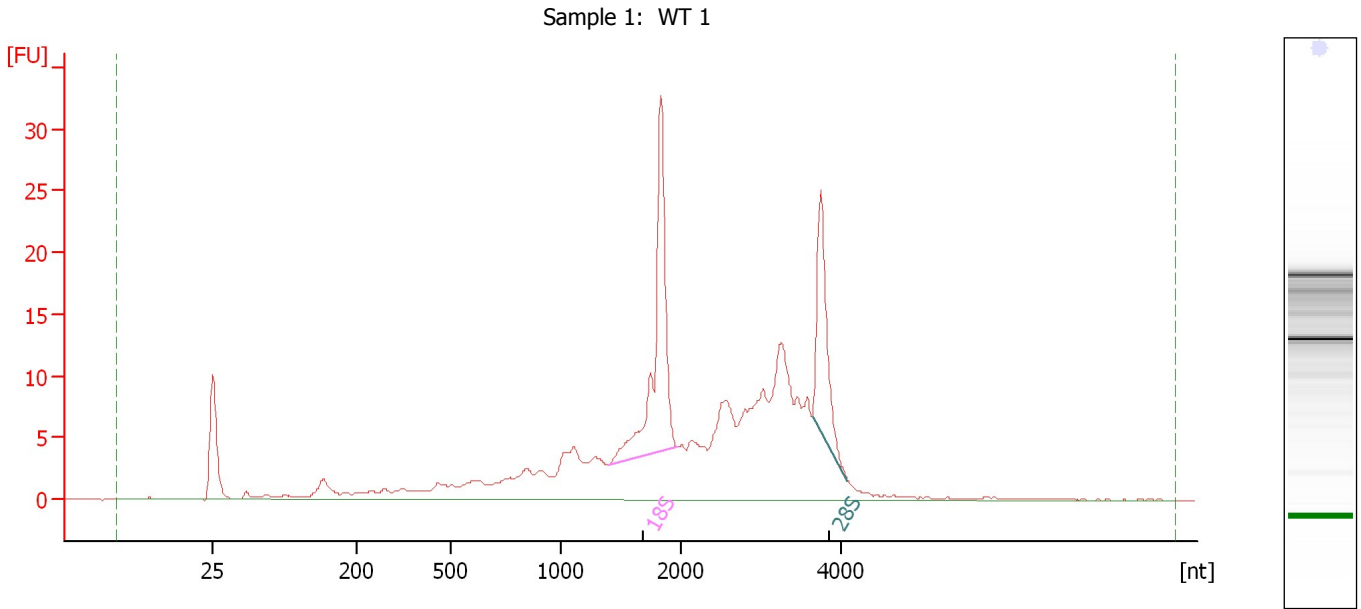
Overall Results for Ladder

RNA Area:	190.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1: WT 1

RNA Area:	251.8	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	198 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 7.10

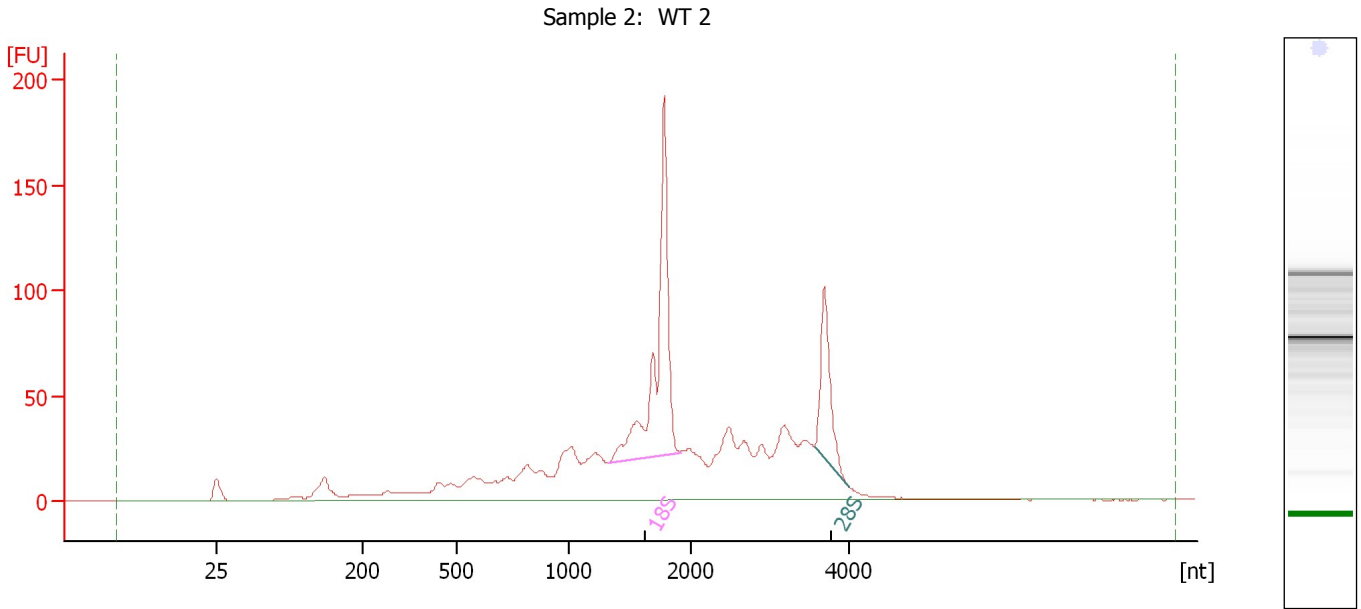
Fragment table for sample 1 : Sample 1: WT 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,392	1,958	36.0	14.3
28S	3,650	4,095	18.9	7.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2: WT 2

RNA Area: 1,205.9 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 948 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN:7

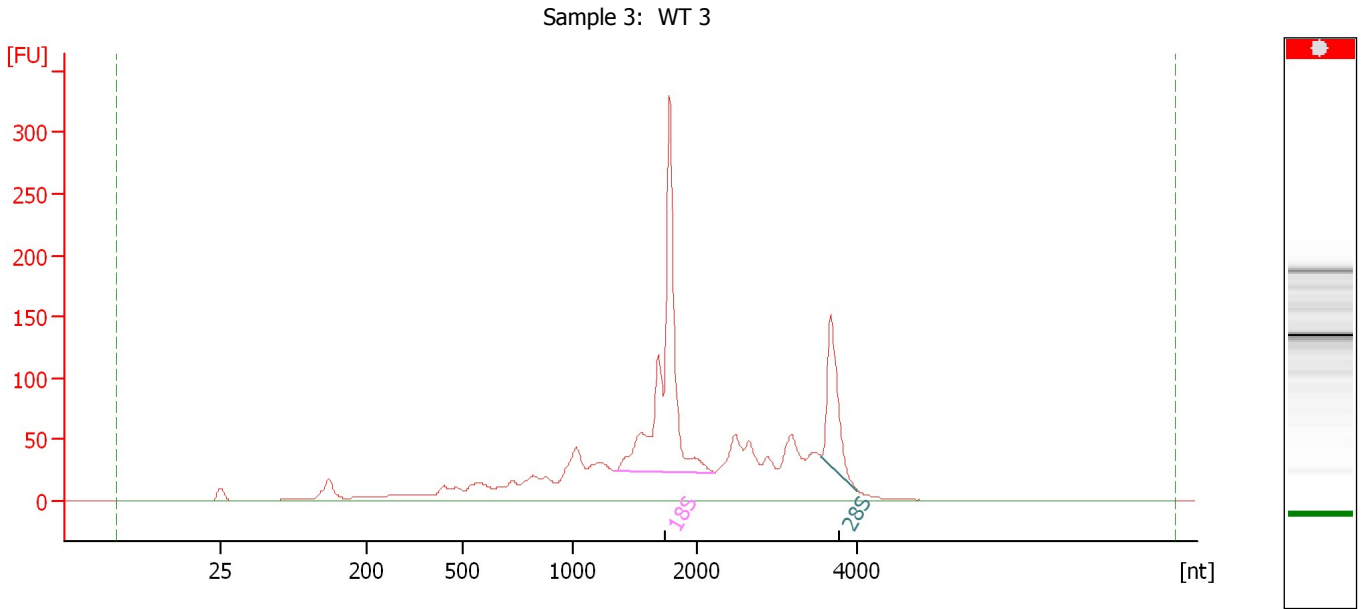
Fragment table for sample 2 : Sample 2: WT 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,329	1,918	224.7	18.6
28S	3,561	3,989	79.6	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3: WT 3

RNA Area:	1,781.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,400 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

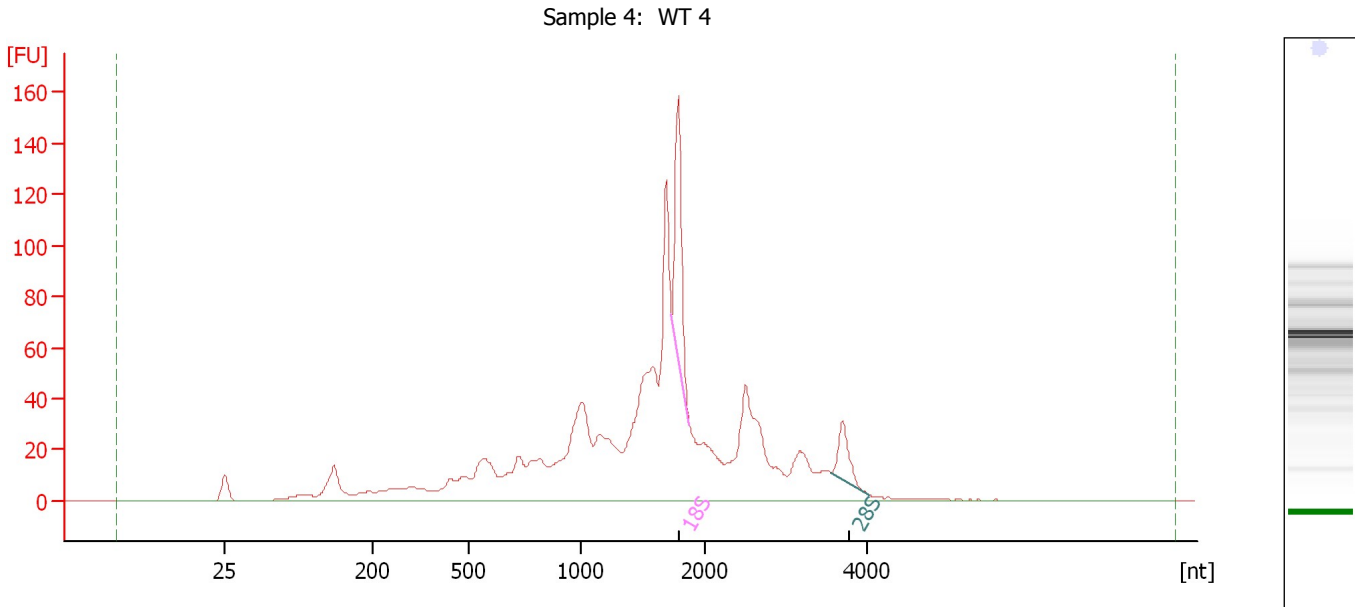
Fragment table for sample 3 : Sample 3: WT 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,336	2,225	449.1	25.2
28S	3,555	4,007	127.3	7.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4: WT 4

RNA Area:	1,191.1	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	936 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 4.20

Fragment table for sample 4 : Sample 4: WT 4

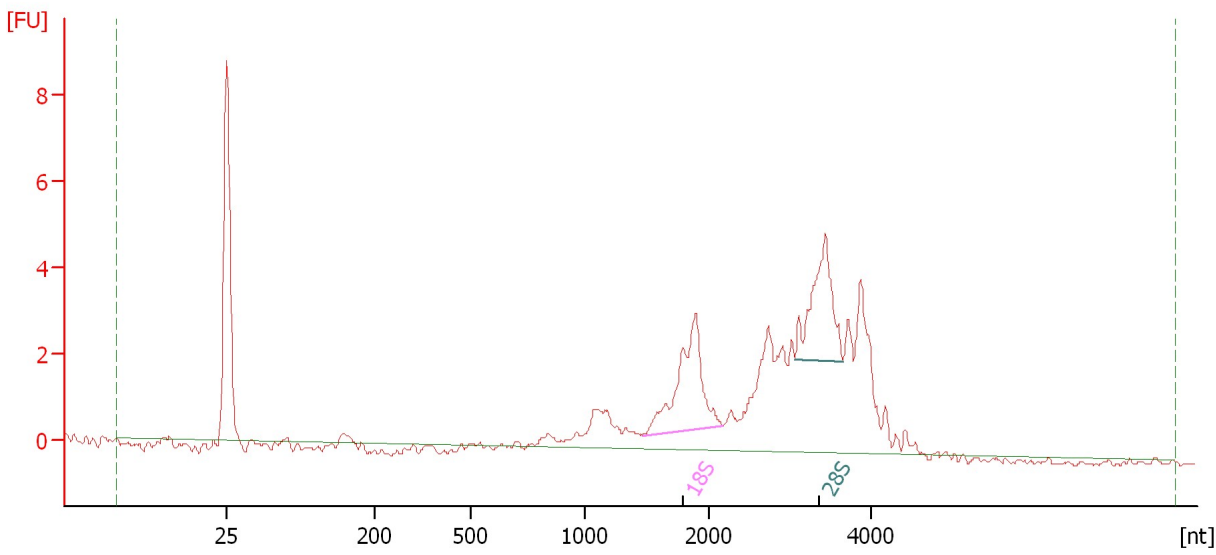
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	1,881	71.0	6.0
28S	3,560	4,035	24.4	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...

Sample 5: WT 5



Overall Results for sample 5 : Sample 5: WT 5

RNA Area:	52.2	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	41 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.60

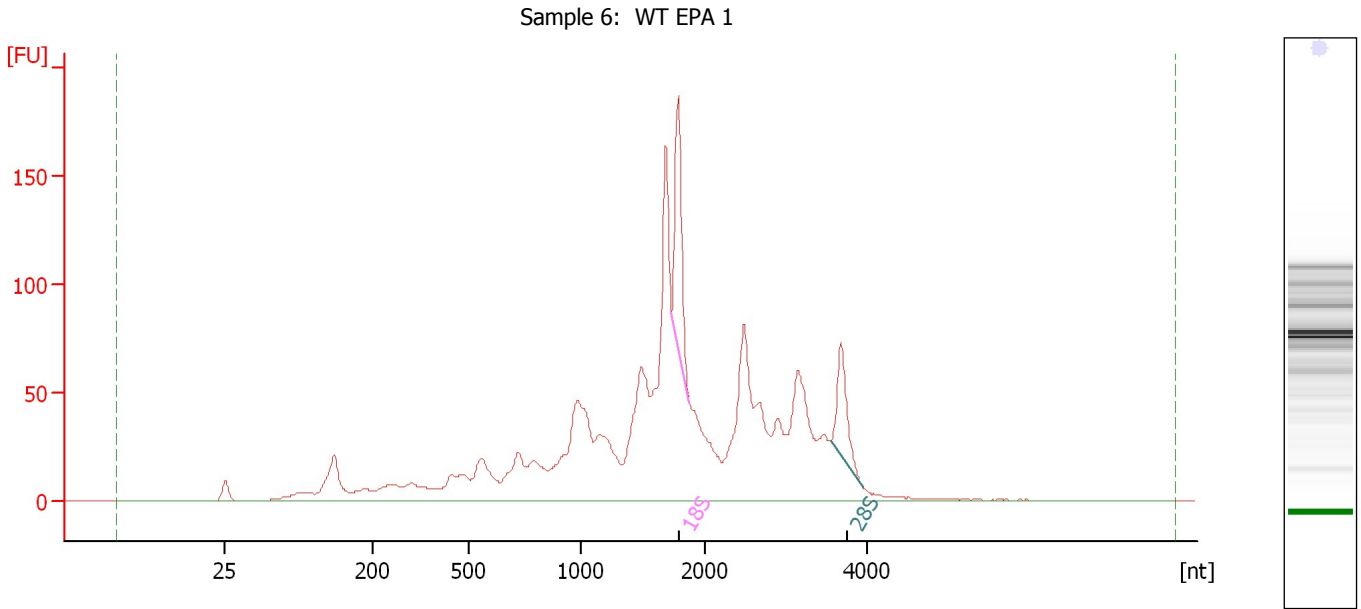
Fragment table for sample 5 : Sample 5: WT 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	2,190	7.1	13.6
28S	3,057	3,648	5.8	11.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6: WT EPA 1

RNA Area:	1,708.3	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	1,343 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 4.10

Fragment table for sample 6 : Sample 6: WT EPA 1

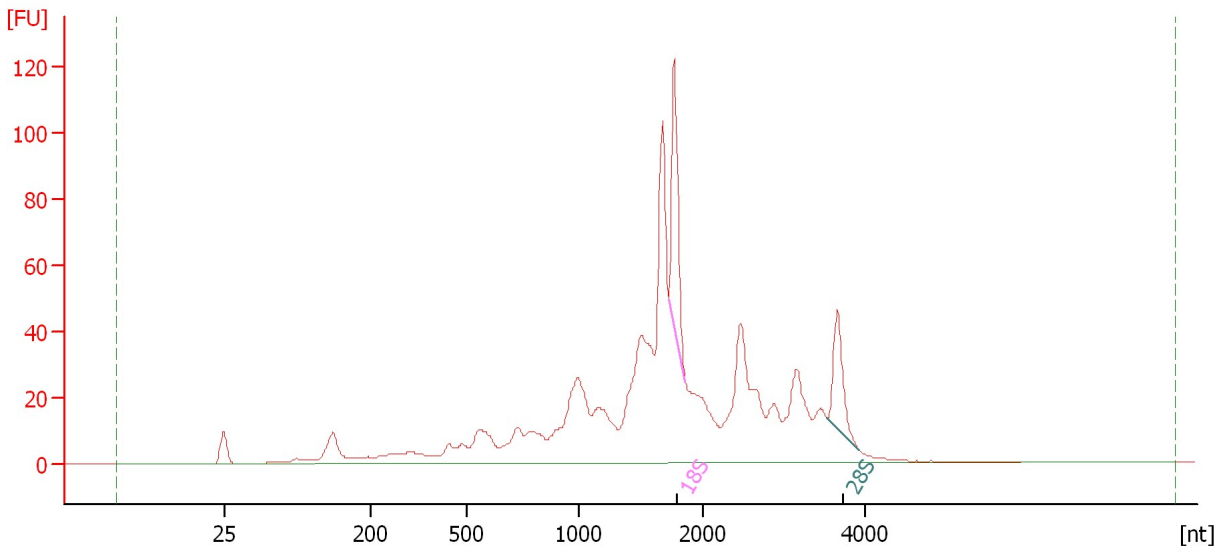
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	1,881	83.3	4.9
28S	3,560	3,955	52.1	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...

Sample 7: WT EPA 2



Overall Results for sample 7 : Sample 7: WT EPA 2

RNA Area: 915.3 RNA Integrity Number (RIN): 4.6 (B.02.08)
RNA Concentration: 719 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 4.60

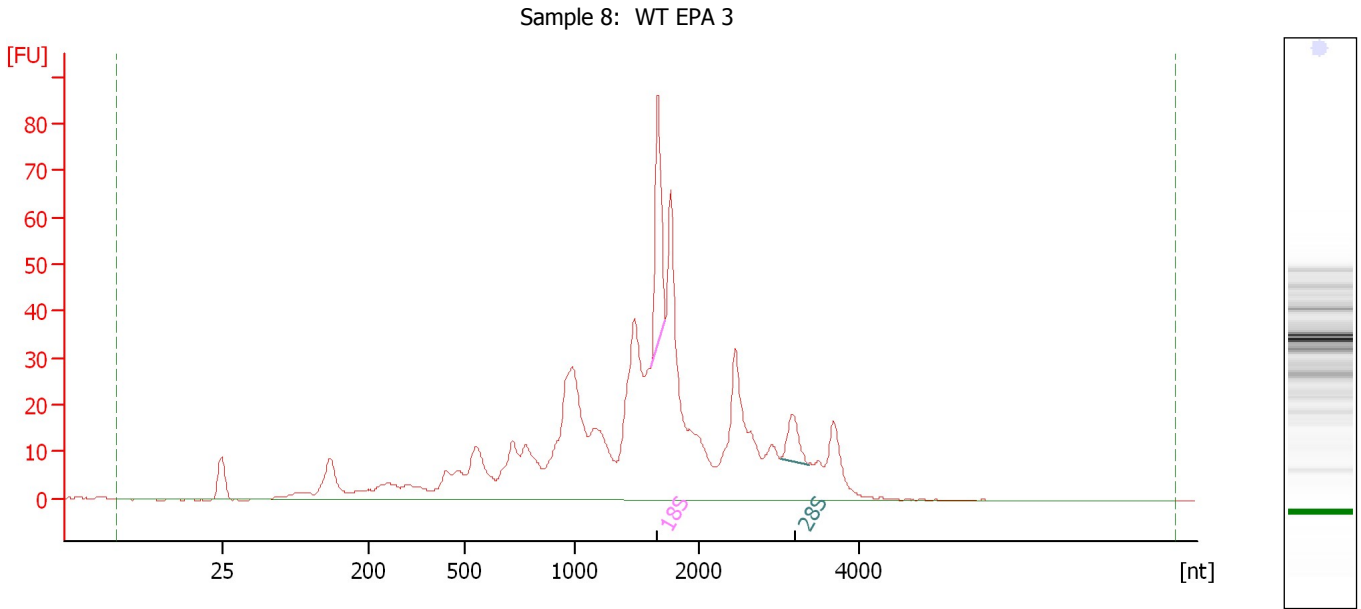
Fragment table for sample 7 : Sample 7: WT EPA 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	1,863	56.8	6.2
28S	3,549	3,945	32.9	3.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8: WT EPA 3

RNA Area:	733.2	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	576 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.80

Fragment table for sample 8 : Sample 8: WT EPA 3

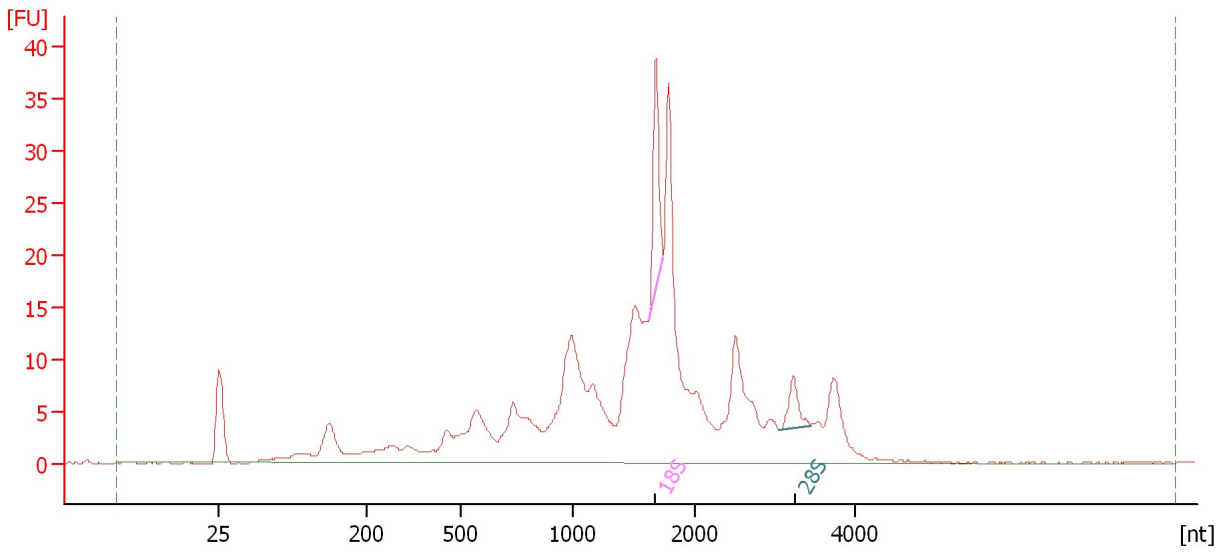
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,730	36.9	5.0
28S	3,022	3,367	11.5	1.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...

Sample 9: WT EPA 4



Overall Results for sample 9 : Sample 9: WT EPA 4

RNA Area: 338.0 RNA Integrity Number (RIN): 3.6 (B.02.08)
RNA Concentration: 266 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.60

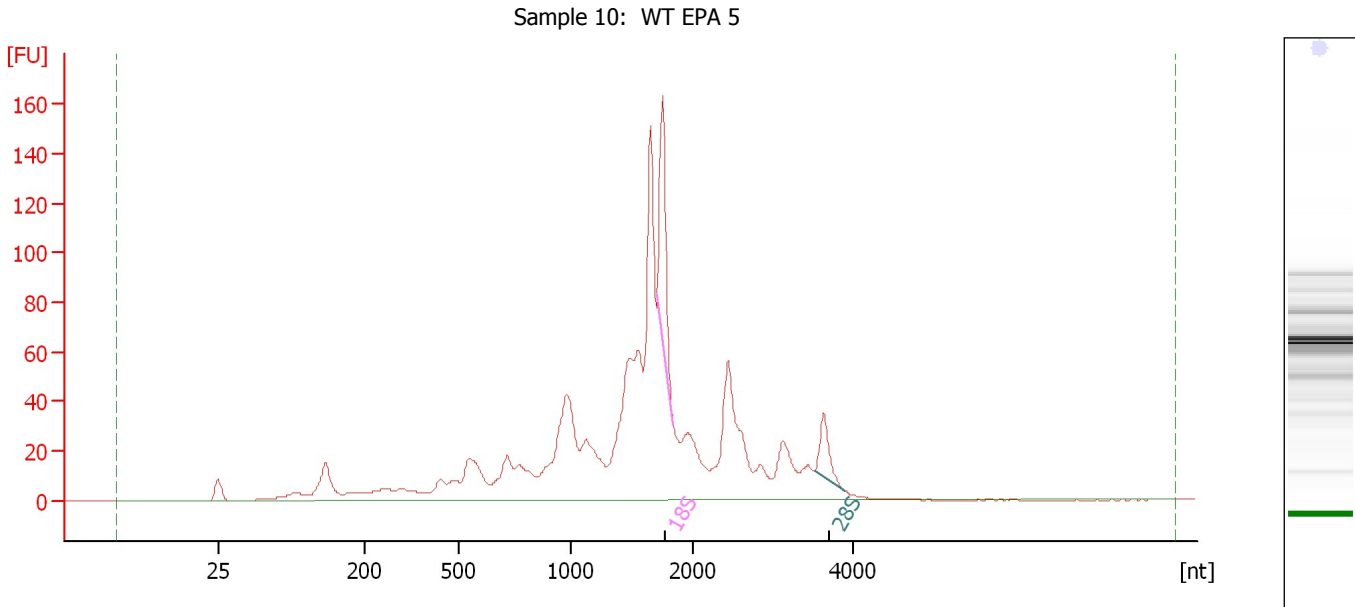
Fragment table for sample 9 : Sample 9: WT EPA 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,745	15.1	4.5
28S	3,064	3,450	5.2	1.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10: WT EPA 5

RNA Area:	1,205.6	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	948 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.90

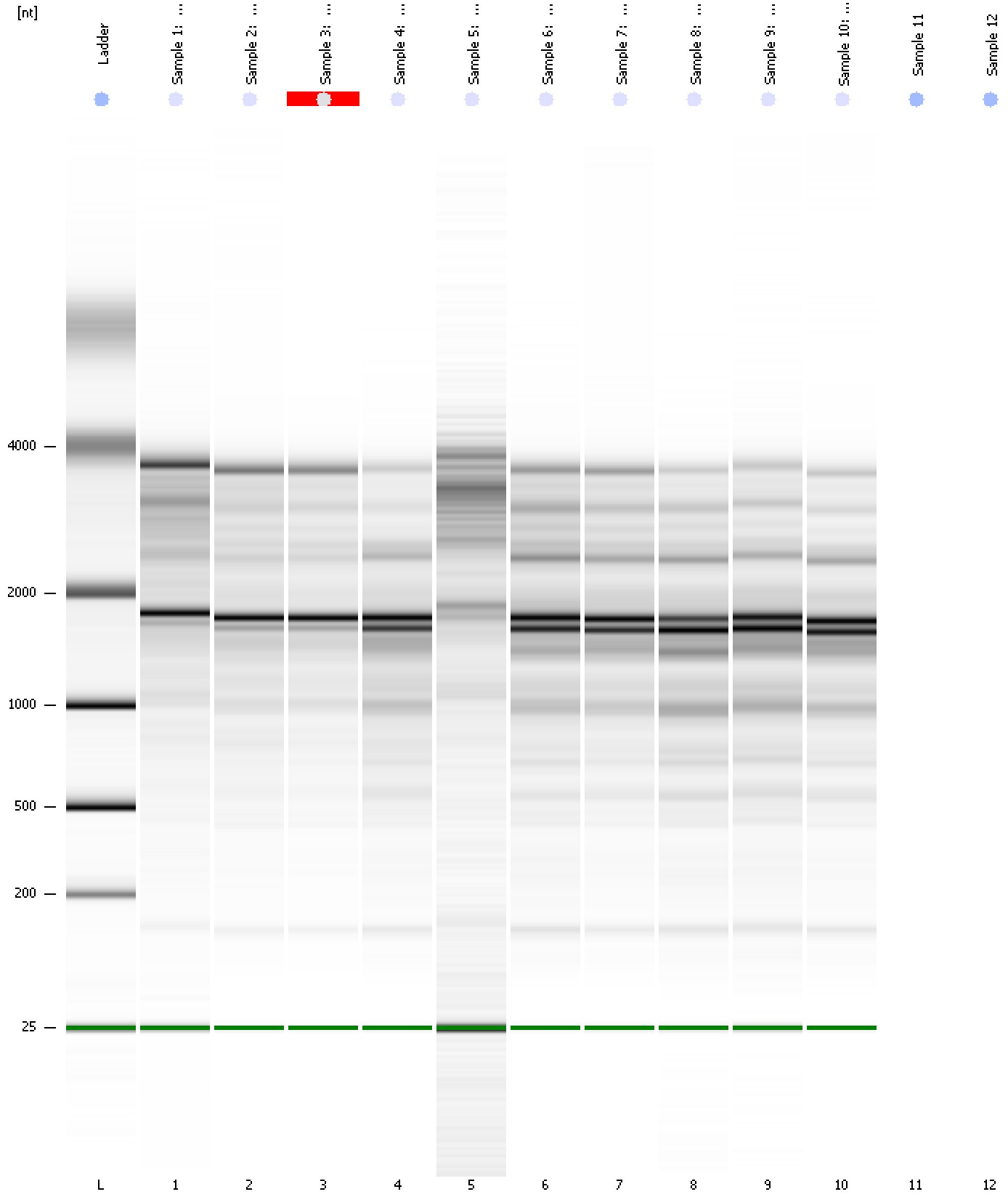
Fragment table for sample 10 : Sample 10: WT EPA 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	1,849	63.4	5.3
28S	3,532	3,906	24.2	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Gel Image

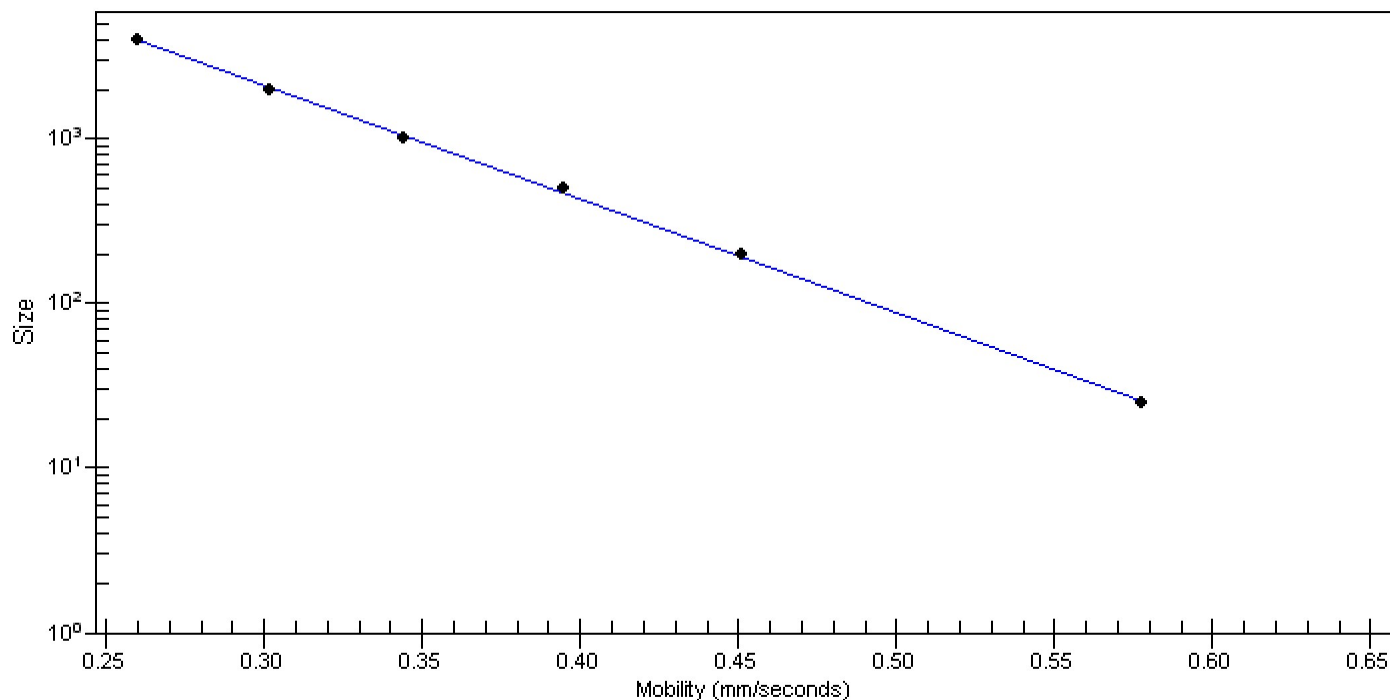


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
Modified: 11/17/2015 10:09:54 AM

Invalid Samples

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad

Created: 11/17/2015 9:43:32 AM
 Modified: 11/17/2015 10:09:54 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		11/17/2015 10:04:36 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-17\2015-11-17_001.xad)		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/17/2015 9:43:37 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1